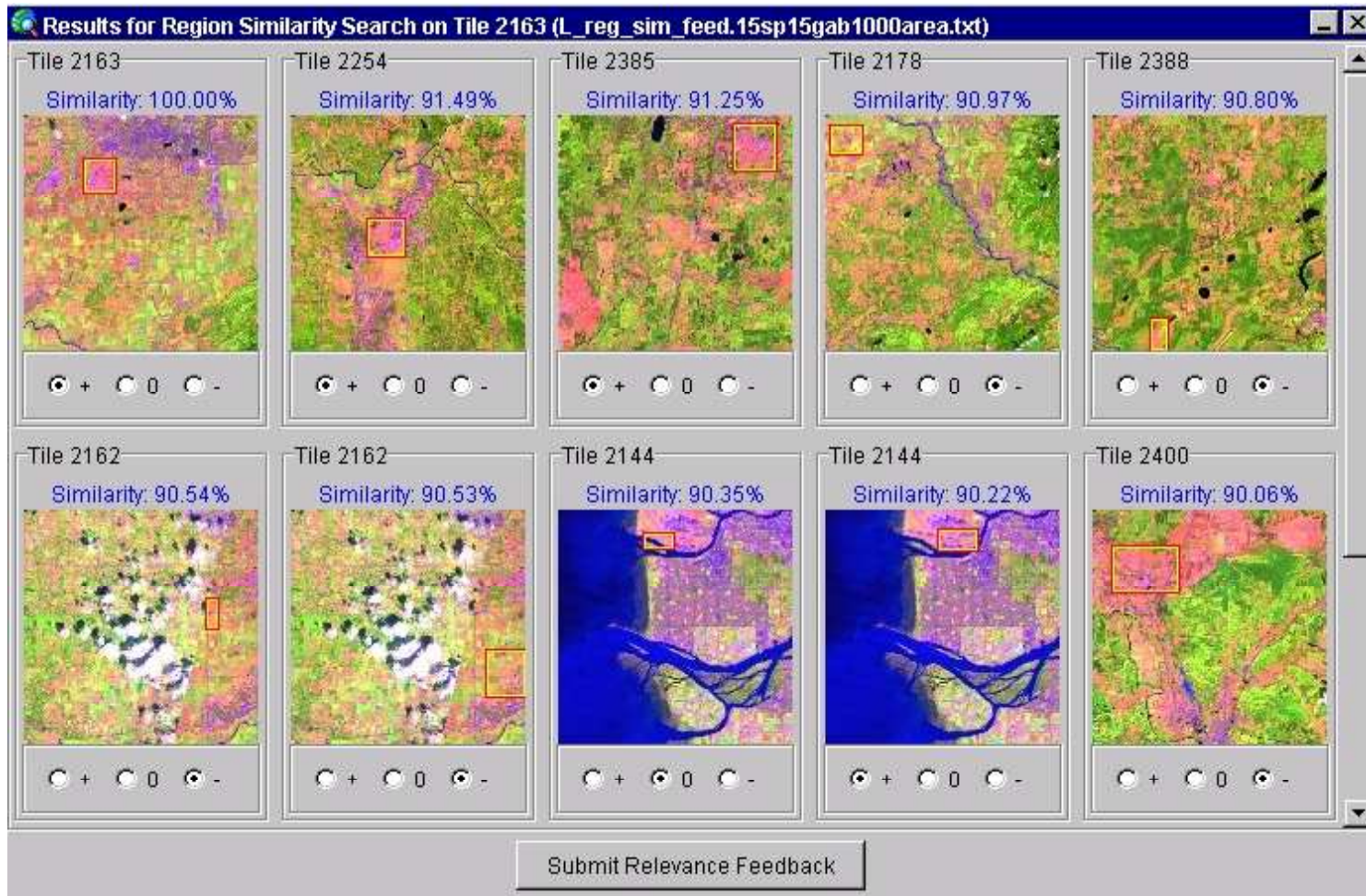


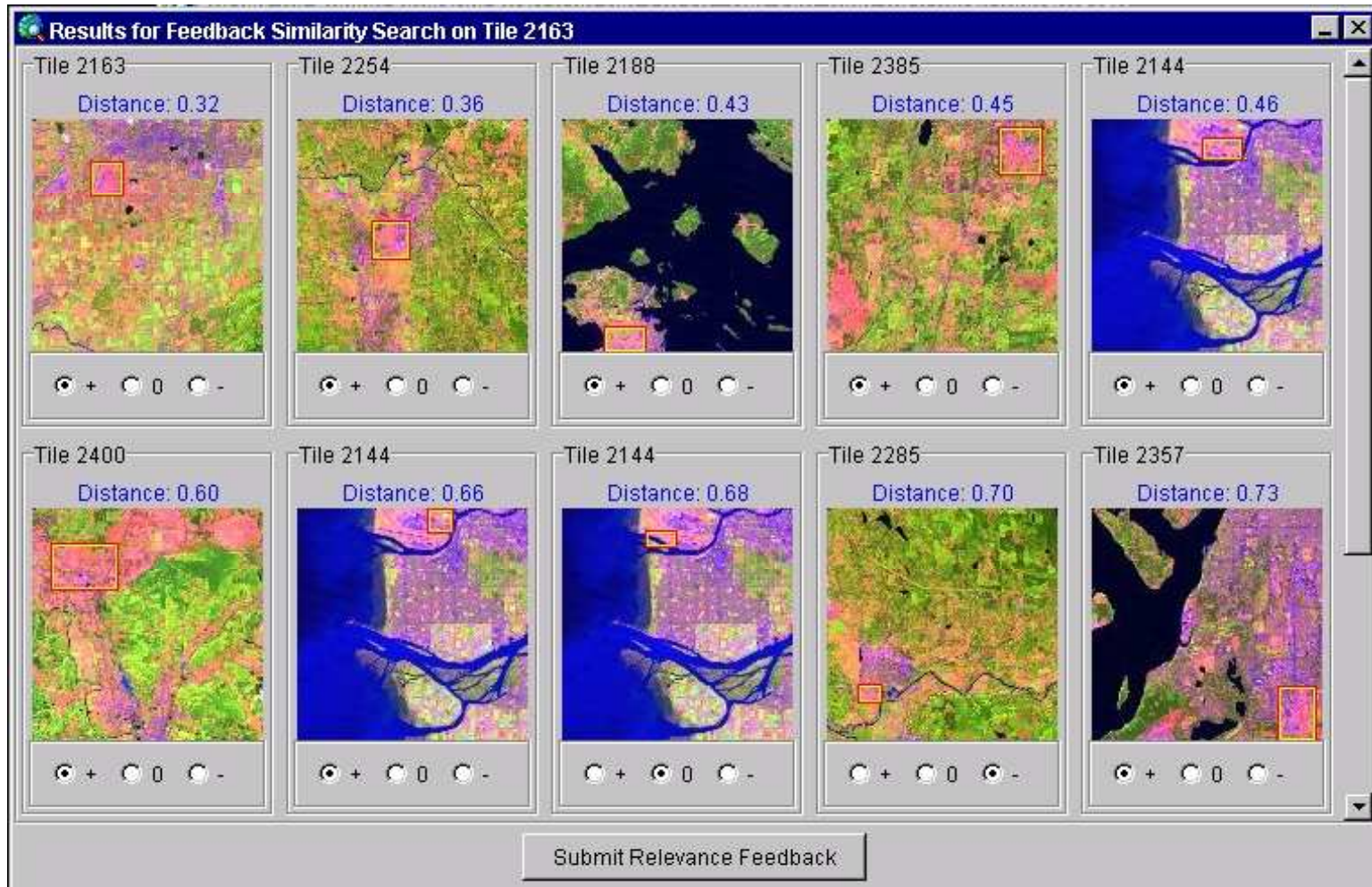
*Visualization of RHSEG results*

# *Relevance Feedback*



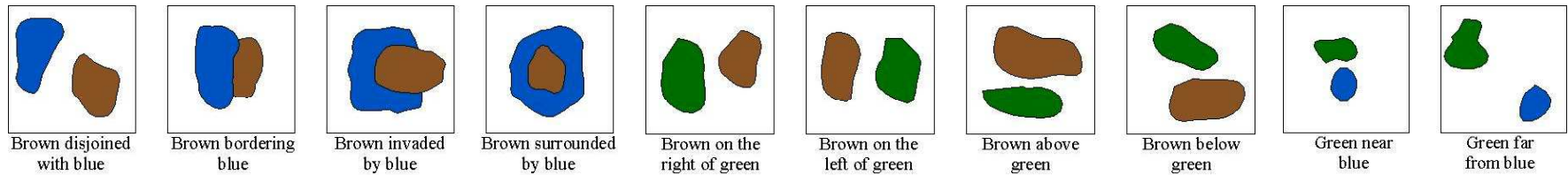
*Initial results search and relevance feedback for airport  
4 out of 10 images contain airports*

# Relevance Feedback

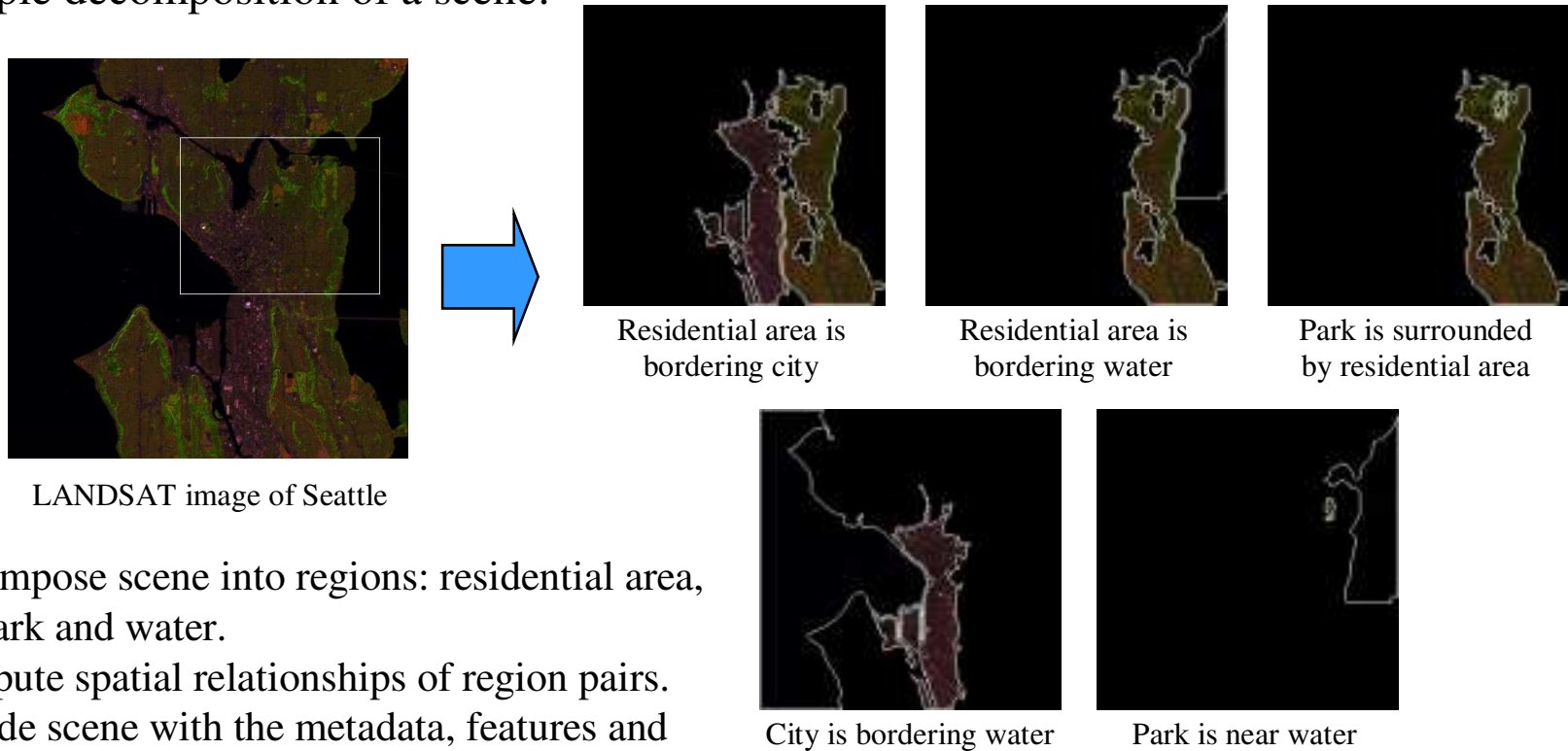


Improved results after relevance feedback  
8 out of 10 images contain airports

## Example spatial relationships:

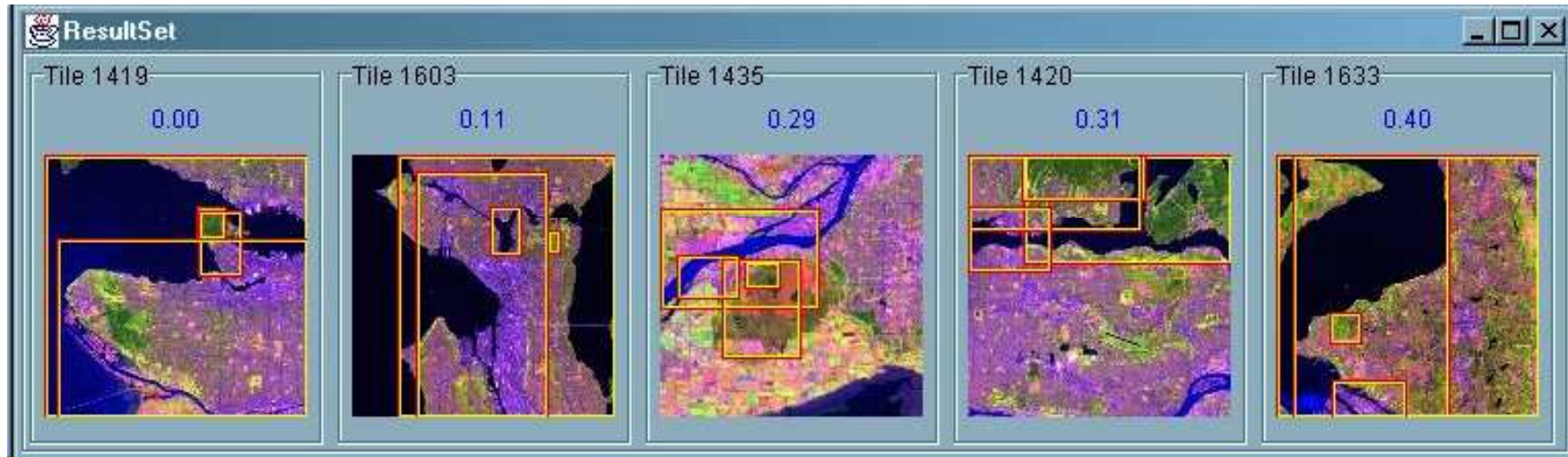


## Example decomposition of a scene:



- Decompose scene into regions: residential area, city, park and water.
- Compute spatial relationships of region pairs.
- Encode scene with the metadata, features and relationships of its regions.
- Searches and classification can be done to find other region groups that have both similar feature characteristics and similar spatial relationships.

Example of searches using the preliminary implementation.

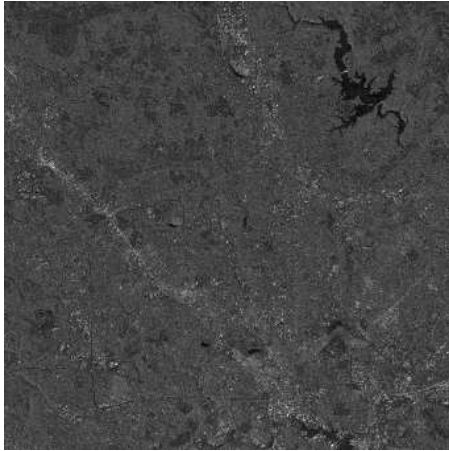


Search for an image where residential area is bordering city and both are bordering water, and a park is surrounded by residential area and is also close to water.

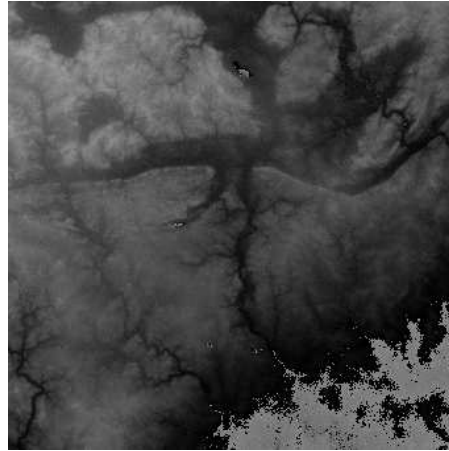


Search for an image where forest is bordering water and is also to the north of a residential area.

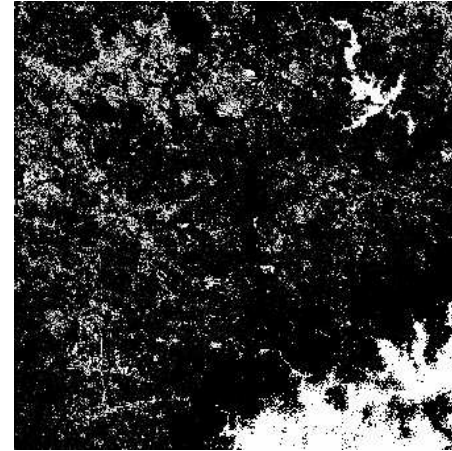
SRTM Baltimore – Bayesian interactive classification – ClassFuse  
fusion of SAR image intensity, texture and DEM information



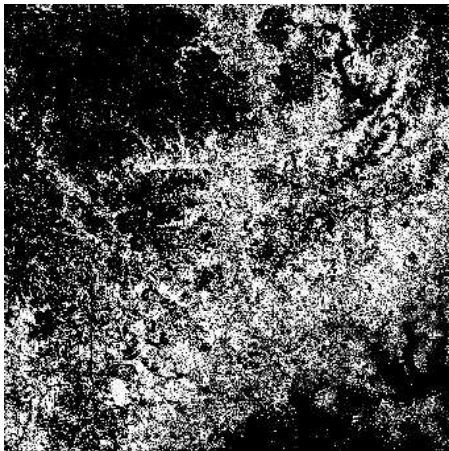
Intensity



DEM



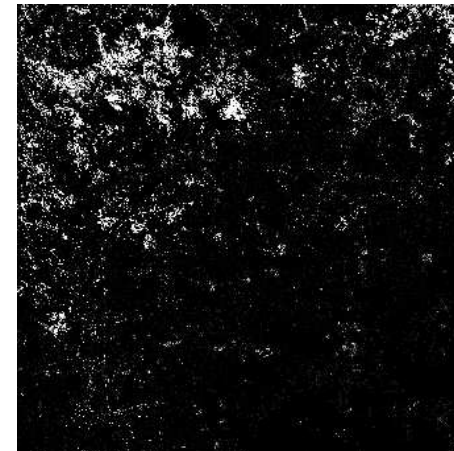
Water



Urbanized



Bare Soil



Forest

# SRTM Baltimore – Clustering by melting – as image information mining tool

## sequence of SRTM DEM classification and trajectory of clustres

